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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/531,810	04/18/2005	Masaru Yamaoka	10873.1682USWO	3671	
52835 7:	590 09/21/2006		EXAMINER		
HAMRE, SCHUMANN, MUELLER & LARSON, P.C.			EDUN, MUH	EDUN, MUHAMMAD N	
P.O. BOX 2902	2				
MINNEAPOLIS, MN 55402-0902			ART UNIT	PAPER NUMBER	
	•		2627		
			DATE MAIL ED: 00/21/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Autient Occurrence	10/531,810	YAMAOKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	MUHAMMAD N. EDUN	2627				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on 18 Ag This action is FINAL. Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Shoji et al. (WO 02/25645).

Shoji et al. discloses the invention as claimed. Figs. 1-58 show the information recording apparatus and medium having information recorded by marks, wherein sub-information (sub-digital data, see the abstract) is recorded so as to be superimposed on the main data by deformation of a shape or a pattern of the recording mark or position displacement of the recording mark in accordance with the sub-information, the sub-information being subjected to data conversion on medium inherent information or apparatus nullification information that is recorded based on the information recording medium (see for example the abstract and page 32, which describes the sub-digital data that include key information relating to the medium inherent information, is recorded by edge displacement of the main data, i.e. taken to be deforming the shape of the recording mark), as set forth in claims 1-12.

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The reference further teaches: the medium inherent information includes BCA (see for example page 38, lines 16-20), as set forth in claims 2, 3, 8 and 11; and the data conversion of the sub-information includes pseudo random number sequence that is generated using an initial value a key obtained using the medium inherent information (see for example page 38, lines 3-16), as set forth in claims 4-7, 9, 10 and 12. See also the description of the figures for further details relating to the limitations as set forth in the claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nagai et al. (2006/0039262) discloses an optical disk recording apparatus capable or recording sub-information with the main information.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD N. EDUN whose telephone number is 571-272-7617. The examiner can normally be reached on FLEXITIME.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MUHAMMAD N EDUN Primary Examiner Art Unit 2627

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